

Guo-Shi Liu

List of Publications by Year in descending order

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67
papers

2,423
citations

236833

25
h-index

214721

47
g-index

72
all docs

72
docs citations

72
times ranked

2215
citing authors

#	ARTICLE	IF	CITATIONS
1	Beneficial effect of resveratrol on bovine oocyte maturation and subsequent embryonic development after in vitro fertilization. <i>Fertility and Sterility</i> , 2014, 101, 577-586.e1.	0.5	160
2	Mitochondria Synthesize Melatonin to Ameliorate Its Function and Improve Mice Oocyte's Quality under in Vitro Conditions. <i>International Journal of Molecular Sciences</i> , 2016, 17, 939.	1.8	160
3	Changes in melatonin levels in transgenic <i>MicroTom</i> tomato overexpressing ovine <i>AANAT</i> and ovine <i>HIOMT</i> genes. <i>Journal of Pineal Research</i> , 2014, 56, 134-142.	3.4	151
4	Melatonin exists in porcine follicular fluid and improves in vitro maturation and parthenogenetic development of porcine oocytes. <i>Journal of Pineal Research</i> , 2009, 47, 318-323.	3.4	149
5	Melatonin promotes the in vitro development of pronuclear embryos and increases the efficiency of blastocyst implantation in murine. <i>Journal of Pineal Research</i> , 2013, 55, 267-274.	3.4	136
6	Beneficial effects of melatonin on bovine oocytes maturation: a mechanistic approach. <i>Journal of Pineal Research</i> , 2014, 57, 239-247.	3.4	127
7	Melatonin protects porcine oocyte in vitro maturation from heat stress. <i>Journal of Pineal Research</i> , 2015, 59, 365-375.	3.4	105
8	Melatonin promotes embryonic development and reduces reactive oxygen species in vitrified mouse 2-cell embryos. <i>Journal of Pineal Research</i> , 2012, 52, 305-311.	3.4	102
9	Beneficial effects of melatonin on in vitro bovine embryonic development are mediated by melatonin receptor 1. <i>Journal of Pineal Research</i> , 2014, 56, 333-342.	3.4	87
10	Melatonin regulates the activities of ovary and delays the fertility decline in female animals via MT1/AMPK pathway. <i>Journal of Pineal Research</i> , 2019, 66, e12550.	3.4	85
11	Beneficial Effects of Melatonin on the In Vitro Maturation of Sheep Oocytes and Its Relation to Melatonin Receptors. <i>International Journal of Molecular Sciences</i> , 2017, 18, 834.	1.8	76
12	Melatonin and its receptor MT1 are involved in the downstream reaction to luteinizing hormone and participate in the regulation of luteinization in different species. <i>Journal of Pineal Research</i> , 2016, 61, 279-290.	3.4	61
13	Melatonin-related genes expressed in the mouse uterus during early gestation promote embryo implantation. <i>Journal of Pineal Research</i> , 2015, 58, 300-309.	3.4	57
14	Effects of Melatonin on the Proliferation and Apoptosis of Sheep Granulosa Cells under Thermal Stress. <i>International Journal of Molecular Sciences</i> , 2014, 15, 21090-21104.	1.8	50
15	Resveratrol compares with melatonin in improving in vitro porcine oocyte maturation under heat stress. <i>Journal of Animal Science and Biotechnology</i> , 2016, 7, 33.	2.1	50
16	Melatonin Improves the Quality of In Vitro Produced (IVP) Bovine Embryos: Implications for Blastocyst Development, Cryotolerance, and Modifications of Relevant Gene Expression. <i>PLoS ONE</i> , 2014, 9, e93641.	1.1	47
17	Melatonin Improves the Quality of Inferior Bovine Oocytes and Promoted Their Subsequent IVF Embryo Development: Mechanisms and Results. <i>Molecules</i> , 2017, 22, 2059.	1.7	47
18	Melatonin implantation improved the egg-laying rate and quality in hens past their peak egg-laying age. <i>Scientific Reports</i> , 2016, 6, 39799.	1.6	43

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19	Melatonin promotes development of haploid germ cells from early developing spermatogenic cells of <i>Suffolk</i> sheep under in vitro condition. <i>Journal of Pineal Research</i> , 2016, 60, 435-447.	3.4	42
20	Effects of Melatonin on In Vitro Development of Mouse Two-Cell Embryos Cultured in HTF Medium. <i>Endocrine Research</i> , 2010, 35, 17-23.	0.6	40
21	An <i>AANAT</i> / <i>ASMT</i> transgenic animal model constructed with <i>CRISPR</i> / <i>Cas9</i> system serving as the mammary gland bioreactor to produce melatonin-enriched milk in sheep. <i>Journal of Pineal Research</i> , 2017, 63, e12406.	3.4	35
22	Changes in the Relative Inflammatory Responses in Sheep Cells Overexpressing of Toll-Like Receptor 4 When Stimulated with LPS. <i>PLoS ONE</i> , 2012, 7, e47118.	1.1	34
23	α -ketoglutarate delays age-related fertility decline in mammals. <i>Aging Cell</i> , 2021, 20, e13291.	3.0	33
24	Effects of melatonin administration on embryo implantation and offspring growth in mice under different schedules of photoperiodic exposure. <i>Reproductive Biology and Endocrinology</i> , 2017, 15, 78.	1.4	30
25	Melatonin promotes male reproductive performance and increases testosterone synthesis in mammalian Leydig cells. <i>Biology of Reproduction</i> , 2021, 104, 1322-1336.	1.2	29
26	Melatonin Promotes the In Vitro Development of Microinjected Pronuclear Mouse Embryos via Its Anti-Oxidative and Anti-Apoptotic Effects. <i>International Journal of Molecular Sciences</i> , 2017, 18, 988.	1.8	28
27	Over-expression of Toll-like receptor 2 up-regulates heme oxygenase-1 expression and decreases oxidative injury in dairy goats. <i>Journal of Animal Science and Biotechnology</i> , 2017, 8, 3.	2.1	25
28	Crosstalk between androgen and Wnt/ β 2-catenin leads to changes of wool density in <i>FGF5</i> -knockout sheep. <i>Cell Death and Disease</i> , 2020, 11, 407.	2.7	25
29	Effects of <i>AANAT</i> overexpression on the inflammatory responses and autophagy activity in the cellular and transgenic animal levels. <i>Autophagy</i> , 2018, 14, 1850-1869.	4.3	24
30	α -ketoglutarate affects murine embryo development through metabolic and epigenetic modulations. <i>Reproduction</i> , 2019, 158, 125-135.	1.1	23
31	Exogenous melatonin reduces somatic cell count of milk in Holstein cows. <i>Scientific Reports</i> , 2017, 7, 43280.	1.6	22
32	Melatonin Improves Parthenogenetic Development of Vitrified "Warmed Mouse Oocytes Potentially by Promoting G1/S Cell Cycle Progression. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4029.	1.8	22
33	<i>Aanat</i> Knockdown and Melatonin Supplementation in Embryo Development: Involvement of Mitochondrial Function and DNA Methylation. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 2050-2065.	2.5	21
34	Toll-Like Receptor 4 Promotes NO Synthesis by Upregulating GCHI Expression under Oxidative Stress Conditions in Sheep Monocytes/Macrophages. <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 2015, 1-11.	1.9	20
35	Melatonin delays ovarian aging in mice by slowing down the exhaustion of ovarian reserve. <i>Communications Biology</i> , 2021, 4, 534.	2.0	19
36	Effects of Melatonin on Early Pregnancy in Mouse: Involving the Regulation of <i>StAR</i> , <i>Cyp11a1</i> , and <i>lh</i> Expression. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1637.	1.8	18

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37	Leptin mediates the effects of melatonin on female reproduction in mammals. <i>Journal of Pineal Research</i> , 2019, 66, e12559.	3.4	16
38	Melatonin Alleviates Hypoxia-Induced Apoptosis of Granulosa Cells by Reducing ROS and Activating MTNR1Bâ€“PKAâ€“Caspase8/9 Pathway. <i>Antioxidants</i> , 2021, 10, 184.	2.2	14
39	Effects of melatonin on superovulation and transgenic embryo transplantation in small-tailed han sheep (<i>Ovis aries</i>). <i>Neuroendocrinology Letters</i> , 2013, 34, 294-301.	0.2	14
40	Female Reproductive Performance in the Mouse: Effect of Oral Melatonin. <i>Molecules</i> , 2018, 23, 1845.	1.7	13
41	Toll-Like Receptor 4 Reduces Oxidative Injury via Glutathione Activity in Sheep. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-9.	1.9	12
42	<i>AANAT</i> transgenic sheep generated via OPS vitrified-microinjected pronuclear embryos and reproduction efficiency of the transgenic offspring. <i>PeerJ</i> , 2018, 6, e5420.	0.9	12
43	Overexpression of Toll-Like Receptor 4 Contributes to Phagocytosis of <i>Salmonella Enterica</i> Serovar Typhimurium via Phosphoinositide 3-Kinase Signaling in Sheep. <i>Cellular Physiology and Biochemistry</i> , 2018, 49, 662-677.	1.1	11
44	NLRP7 is expressed in the ovine ovary and associated with in vitro pre-implantation embryo development. <i>Reproduction</i> , 2019, 158, 415-427.	1.1	11
45	Melatonin Promotes Superovulation in Sika Deer (<i>Cervus nippon</i>). <i>International Journal of Molecular Sciences</i> , 2014, 15, 12107-12118.	1.8	10
46	RNAi combining Sleeping Beauty transposon system inhibits ex vivo expression of foot-and-mouth disease virus VP1 in transgenic sheep cells. <i>Scientific Reports</i> , 2017, 7, 10065.	1.6	10
47	Melatonin improves the efficiency of super-ovulation and timed artificial insemination in sheep. <i>PeerJ</i> , 2019, 7, e6750.	0.9	10
48	Melatonergic systems of AANAT, melatonin, and its receptor MT2 in the corpus luteum are essential for reproductive success in mammalsâ€. <i>Biology of Reproduction</i> , 2021, 104, 430-444.	1.2	10
49	The Regulatory Mechanism of MLT/MT1 Signaling on the Growth of Antler Mesenchymal Cells. <i>Molecules</i> , 2017, 22, 1793.	1.7	8
50	Effects of Melatonin on Dairy Herd Improvement (DHI) of Holstein Cow with High SCS. <i>Molecules</i> , 2021, 26, 834.	1.7	8
51	Overexpression of <i>ASMT</i> likely enhances the resistance of transgenic sheep to brucellosis by influencing immuneâ€related signaling pathways and gut microbiota. <i>FASEB Journal</i> , 2021, 35, e21783.	0.2	8
52	Vitrification transiently alters Oct-4, Bcl2 and P53 expression in mouse morulae but does not affect embryo development in vitro. <i>Cryobiology</i> , 2016, 73, 120-125.	0.3	7
53	Overexpression of Toll-like Receptor 4-linked Mitogen-activated Protein Kinase Signaling Contributes to Internalization of <i>Escherichia coli</i> in Sheep. <i>International Journal of Biological Sciences</i> , 2018, 14, 1022-1032.	2.6	7
54	Effects of rumen bypass melatonin feeding (RBMF) on milk quality and mastitis of Holstein cows. <i>PeerJ</i> , 2020, 8, e9147.	0.9	6

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55	Efficient production of pronuclear embryos in breeding and nonbreeding season for generating transgenic sheep overexpressing TLR4. <i>Journal of Animal Science and Biotechnology</i> , 2016, 7, 38.	2.1	5
56	Melatonin Administration Accelerates Puberty Onset in Mice by Promoting FSH Synthesis. <i>Molecules</i> , 2021, 26, 1474.	1.7	5
57	Melatonin Modulates Lipid Metabolism in Porcine Cumulus Oocyte Complex via Its Receptors. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 648209.	1.8	5
58	Melatonin Alleviates the Suppressive Effect of Hypoxanthine on Oocyte Nuclear Maturation and Restores Meiosis via the Melatonin Receptor 1 (MT1)-Mediated Pathway. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 648148.	1.8	5
59	Effects of Duodenal 5-Hydroxytryptophan Perfusion on Melatonin Synthesis in GI Tract of Sheep. <i>Molecules</i> , 2021, 26, 5275.	1.7	5
60	First live offspring born in superovulated sika deer (<i>Cervus nippon</i>) after embryo vitrification. <i>Theriogenology</i> , 2012, 78, 1627-1632.	0.9	4
61	Melatonin promotes the development of sheep transgenic cloned embryos by protecting donor and recipient cells. <i>Cell Cycle</i> , 2022, 21, 1360-1375.	1.3	4
62	Domain fusion TLR2-4 enhances the autophagy-dependent clearance of <i>Staphylococcus aureus</i> in the genetic engineering goat. <i>ELife</i> , 0, 11, .	2.8	4
63	Evaluating the effect of TLR4-overexpressing on the transcriptome profile in ovine peripheral blood mononuclear cells. <i>Journal of Biological Research</i> , 2020, 27, 13.	2.2	3
64	The Improved Milk Quality and Enhanced Anti-Inflammatory Effect in Acetylserotonin-O-methyltransferase (ASMT) Overexpressed Goats: An Association with the Elevated Endogenous Melatonin Production. <i>Molecules</i> , 2022, 27, 572.	1.7	3
65	Responses of Transgenic Melatonin-Enriched Goats on LPS Stimulation and the Proteogenomic Profiles of Their PBMCs. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2406.	1.8	2
66	Effects of SNPs in AANAT and ASMT Genes on Milk and Peripheral Blood Melatonin Concentrations in Holstein Cows (<i>Bos taurus</i>). <i>Genes</i> , 2022, 13, 1196.	1.0	2
67	Surgical embryo transfer resulted in birth of live offspring in farmed blue fox. <i>Animal Reproduction Science</i> , 2008, 105, 424-429.	0.5	1